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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/901,214	07/09/2001	Gordon L. Amidon	PSL-10202/39	6240
75	590 01/02/2002			
Gifford, Krass, Groh, Sprinkle,			EXAMINER	
Anderson & Cit Suite 400	tkowski, P.C.		HUI, SAN MING R	
280 N. Old Woodward Birmingham, MI 48009			ART UNIT	PAPER NUMBER
billingham, iv	11 40007		1617	7
			DATE MAILED: 01/02/2002	6

Please find below and/or attached an Office communication concerning this application or proceeding.

. ,	Application No.	Applicant(s)				
	09/901,214	AMIDON ET AL.				
Office Action Summary	Examiner	Art Unit				
	San-ming Hui	1617				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on	<u> </u>					
2a) ☐ This action is FINAL . 2b) ☑ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-14</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.	/ 5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The expression " capable of <u>substantially</u> solubilizing ..." in claims 1 and 12 is a relative term which renders the claim indefinite. The term " capable of <u>substantially</u> solubilizing ..." is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is unclear, in this instance, in what degree the solubility of the drugs is being improved.

The expressions "said matrix and said solubilizing agent <u>forming</u> the diffusional boundary" in claim 1 and "boundary layer substantially <u>encloses</u> said drug particle and said solubilizing agent" in claim 11 render the claims indefinite it is unclear whether the solubilizing agent is part of the boundary or is it enclosed by the boundary layer.

The term "substantially" in claim 11 is a relative term which renders the claim indefinite. The term "substantially" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. It is not clear, in

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this instance, how much of the drug particle and the solubilizing agent are enclosed in the boundary layer.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2, 5, 6, and 8-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Amidon et al. (US Patent 5,834,022).

Amidon et al. teaches a coating (the boundary layer) composition consisting essentially of gelatin (a matrix) and lecithin (solubilizing agent) and in which the drug are disposed within the boundarylayer (See particularly col. 9, line 15 – col. 12, line 19).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3, 4, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amidon et al. (US Patent 5,834,022) in view of Woo (US Patent 5,589,455) and

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Gennaro et al. (Remington's Pharmaceutical Sciences, 18th ed., 1990, page 1662-1664).

Amidon et al. teaches a coating (the boundary layer) composition consisting essentially of gelatin (a matrix) and lecithin (solubilizing agent) and in which the drug are disposed within the boundarylayer (See particularly col. 9, line 15 – col. 12, line 19).

Amidon et al. does not expressly teach that the coating composition contains emulsion or microemulsion. Amidon et al. does not expressly teach that the matrix that formed the boundary layer comprises a film.

Woo teaches that a microemulsion may be used in a soft capsule pharmaceutical formulation to enhance the solubility of a poorly soluble drug, cyclosporin (See particularly abstract, also 4, line 53 to col. 7, line 13).

Gennaro et al. teaches that a gelatin film may be used in the preparation of soft gelatin capsules (See particularly page 1663, col. 2, second paragraph).

It would have been obvious to one skill in the art when the invention was made to incorporate microemulsion and the film into the composition of Amidon et al.

One of ordinary skill in the art would have motivated to incorporate microemulsion and the film into the composition of Amidon et al. because both microemulsion and the film are well known in the art to be useful in poorly-soluble enhancement formulation, based on Woo and Gennaro et al. Therefore, combining agents which are known to be useful to enhance drug solubility individually into a single composition useful for the very same purpose is prima facie obvious. See *In re Kerkhoven* 205 USPQ 1069.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to San-ming. Hui whose telephone number is (703) 305-1002. The examiner can normally be reached on Mon 9:00 to 1:00, Tu - Fri from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Minna Moezie, J.D., can be reached on (703) 308-4612. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-4556 for regular communications and (703) 308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1235.

San-ming Hui December 31, 2001

MINNA MOEZIE, J.D.
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